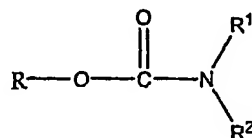


Claims

1. Use as a fragrance ingredient of a tertiary non-vinyl carbamate having a molecular weight less than 350.
2. Use as a fragrance ingredient of a *N,N*-substituted carbamate having a group covalently bonded to the ether oxygen atom of the carbamate selected from the group consisting of alkyl, alk-( $>1$ )-enyl, alkynyl, cycloalkyl, cycloalkenyl, phenyl, naphthyl, cycloalkylalkyl, cycloalkenylalkyl, phenylalkyl and naphthylalkyl, said covalently bonded group being optionally substituted with alkyl, alkenyl and alkoxy, and said group optionally comprising heteroatoms.
3. Use as a fragrance ingredient of a carbamate of formula (I) according to claim 1 or claim 2



wherein

$\text{R}^1$  and  $\text{R}^2$  are independently selected from the group consisting of:

- (a)  $\text{C}_1$  to  $\text{C}_{11}$  alkyl;  $\text{C}_3$  to  $\text{C}_{11}$  alk-( $>1$ )-enyl; or  $\text{C}_2$  to  $\text{C}_{11}$  alkynyl group; and
- (b) cycloalkyl optionally substituted with alkyl, alkenyl and alkoxy group(s);  $\text{C}_3$  to  $\text{C}_8$  cycloalkenyl optionally substituted with alkyl, alkenyl and alkoxy group(s); or phenyl or naphthyl optionally substituted with alkyl, alkenyl and alkoxy group(s); and
- (c)  $\text{C}_4$  to  $\text{C}_{14}$  cycloalkylalkyl, wherein the cycloalkyl ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); or phenylalkyl or naphthylalkyl, wherein the aromatic ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); and

R is selected from the group consisting of:

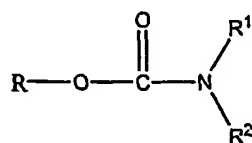
- (a)  $\text{C}_1$  to  $\text{C}_{11}$  alkyl;  $\text{C}_3$  to  $\text{C}_{11}$  alk-( $>1$ )-enyl; or  $\text{C}_2$  to  $\text{C}_{11}$  alkynyl group; and
- (b) cycloalkyl optionally substituted with alkyl, alkenyl, and alkoxy group(s);  $\text{C}_3$  to  $\text{C}_8$  cycloalkenyl optionally substituted with alkyl, alkenyl and alkoxy group(s); or phenyl or naphthyl optionally substituted with alkyl, alkenyl and alkoxy group(s); and
- (c)  $\text{C}_4$  to  $\text{C}_{14}$  cycloalkylalkyl, wherein the cycloalkyl ring is optionally substituted with alkyl, alkenyl and alkoxy group(s);  $\text{C}_4$  to  $\text{C}_{14}$  cycloalkenylalkyl, wherein the cycloalkenyl ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); or phenylalkyl or

naphthylalkyl, wherein the aromatic ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); and

- (d) C<sub>5</sub> to C<sub>14</sub> cycloalkylalkoxyalkyl, wherein the cycloalkyl ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); C<sub>5</sub> to C<sub>14</sub> cycloalkenylalkoxyalkyl, wherein the cycloalkenyl ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); or phenylalkoxyalkyl or naphthylalkoxyalkyl, wherein the aromatic ring is optionally substituted with alkyl, alkenyl and alkoxy group(s); and
- (e) heteroaromatic ring optionally substituted with alkyl, alkenyl and alkoxy group(s); heteroarylalkyl ring optionally substituted with alkyl, alkenyl and alkoxy group(s); heterocyclic ring optionally substituted with alkyl, alkenyl and alkoxy group(s) or heterocycloalkyl ring optionally substituted with alkyl, alkenyl and alkoxy group(s); and the ring having 5 to 6 ring members and the hetero atom of the ring is oxygen or nitrogen; and

R, R<sup>1</sup> and R<sup>2</sup> having together 7 to 18 carbon atoms.

4. Use as a fragrance ingredient of a carbamate of formula (I) according to claim 1 or claim 2

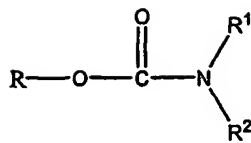


wherein R<sup>1</sup> is selected from the group consisting of:

- (a) C<sub>1</sub> to C<sub>6</sub> alkyl; C<sub>3</sub> to C<sub>5</sub> alk-(>1)-enyl; or C<sub>2</sub> to C<sub>5</sub> alkynyl group; and
- (b) C<sub>3</sub> to C<sub>6</sub> cycloalkyl optionally substituted with alkyl and alkenyl group(s); C<sub>3</sub> to C<sub>6</sub> cycloalkenyl optionally substituted with alkyl and alkenyl group(s); or phenyl optionally substituted with alkyl and alkenyl group(s); and
- (c) C<sub>4</sub> to C<sub>8</sub> cycloalkylalkyl, wherein the cycloalkyl ring is optionally substituted with alkyl and alkenyl group(s); or phenyl alkyl, wherein the aromatic ring is optionally substituted with alkyl and alkenyl group(s); and

R and R<sup>2</sup> form together with the atom to which they are attached a 5 to 8 membered heterocyclic ring, which is optionally substituted with alkyl and alkenyl group(s); and R, R<sup>1</sup> and R<sup>2</sup> having together 7 to 18 carbon atoms.

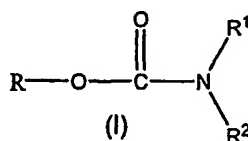
## 5. A compound of formula (I)



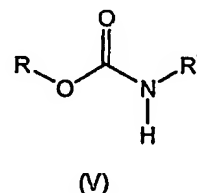
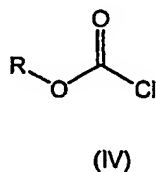
wherein the groups R, R<sup>1</sup> and R<sup>2</sup> are selected according to the following table:

R	R <sup>1</sup>	R <sup>2</sup>
hex-3-enyl	ethyl	ethyl
2-ethyl-hexyl	methyl	methyl
methyl	ethyl	methyl-tolyl
methyl	ethyl	ethyl-tolyl
3-methyl-but-2-enyl	ethyl	ethyl
3-methyl-but-3-enyl	ethyl	ethyl
hex-3-enyl	methyl	iso-propyl
2,2,5-trimethyl-hex-4-enyl	ethyl	ethyl
undec-10-enyl	methyl	methyl
2-ethyl-hexyl	methyl	iso-propyl
2-ethyl-hexyl	ethyl	iso-propyl
R and R <sup>1</sup> together with the atoms to which they are attached		pentyl
is 4-Methyl-oxazolidyl-2-one		
1,1-dimethyl-(4-methyl-cyclohex-3-enyl)-ethyl	methyl	methyl
1,1-dimethyl-(4-methyl-cyclohex-3-enyl)-methyl	methyl	methyl
ethyl	methyl	hexyl
2-methyl-propyl	methyl	butyl
2-methyl-propyl	ethyl	butyl
1,2-dimethyl-1-propyl-propyl	methyl	methyl
1,2-dimethyl-1-propyl-iso-propyl	methyl	methyl
2-ethoxy-phenyl	methyl	methyl
2-[1-(3,3-dimethyl-cyclohexyl)-ethoxy]-2-methyl-propyl	methyl	methyl
2-[1-(3,3-dimethyl-cyclohexyl)-ethoxy]-2-methyl-propyl	ethyl	ethyl
furylmethyl	ethyl	ethyl

6. A fragrance composition comprising as a fragrance ingredient a tertiary non-vinyl carbamate as defined in one of the claims 1 to 5.
7. A method of manufacturing a fragrance application, comprising the incorporation as fragrance ingredient of a tertiary non-vinyl carbamate as defined in one of the claims 1 to 5.
8. A method of claim 7 wherein the fragrance application is selected from the group consisting of perfume, household product, laundry product, body care product and cosmetics.
9. A process for the production of a compound of formula (I) by



- (a) reacting a primary amine  $\text{H}_2\text{NR}^1$  in the presence of a base with a chloroformic acid alkyl ester of formula (IV) to give a secondary carbamate of formula (V), and then



- (b) reacting the secondary carbamate of formula (V) in the presence of a base with an alkylating agent of the formula  $\text{R}^2\text{-X}$ ,  
 wherein X is  $\text{Br}^-$ ,  $\text{Cl}^-$ ,  $\text{J}^-$ , or  $\text{R}^4\text{-SO}_4^-$ , wherein  $\text{R}^4$  is methyl or tolyl, and  
 wherein R,  $\text{R}^1$  and  $\text{R}^2$  are as defined in one of the preceding claims 3, 4 and 5, and  
 step (a) and (b) are sequentially carried out in the same reaction vessel.